

King Tao Jason NG



PROFILE SUMMARY

I am an experienced data scientist with expertise in data science, machine learning, natural language processing, and software engineering, with a strong focus on ensuring compliance with financial market regulations.

CONTACT DETAILS

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PERSONAL INFORMATION

Citizenship: **Australian**
Languages: **English, Chinese**

SKILLS

- Leadership, People Management
- Project Management, Business Analysis, Vendor Management
- Data Governance
- Machine Learning, Statistics, Natural Language Processing
- Software Engineering, Software Quality Assurance
- Databricks, Elastic Stack, Microsoft Power BI
- Python, R, C, C++, KDB+/Q

EXPERIENCE

SENIOR DATA SCIENTIST

Data Analytics and AI, ASIC

Jul 2022 - Present

◊ Led the implementation of the *Licensing ML Proof of Concept, Knowledge Management Metadata Extraction*, and *Lessons Learned Lite Review*.

◊ Successfully delivered the *Lessons Learned Lite Review* and was nominated for the *Australia Day Achievement Award*.

SENIOR DATA SCIENTIST (SECONDMENT)

Superannuation & Life Insurance, ASIC

Sep 2025 - Feb 2026

◊ Led the implementation of red flag detection measures for superannuation funds, strengthening oversight.

◊ Successfully implemented red flag detection measures for the superannuation team, receiving excellent feedback.

SESSIONAL TEACHING ACADEMIC

School of Computing, Macquarie University

Feb 2022 - Jun 2022

SENIOR ANALYTICS PLATFORM OWNER

Chief Data and Analytics Office, ASIC

Jul 2021 - Jul 2022

◊ Led the promotion and management of *Databricks, RStudio Servers, Python Servers*, and the *Data Science Lab*, ensuring optimal performance.

◊ Proposed the *Databricks roadmap*, outlining onboarding strategies, workflow setup, and best practices to enhance efficiency and collaboration among data analysts.

DATA SCIENTIST

Chief Data and Analytics Office, ASIC

Oct 2019 - Jul 2021

◊ Led the development and implementation of *NLP Prospectuses*, leveraging NLP to extract insights and improve document analysis.

◊ Successfully deployed the *NLP Prospectuses* to the Corporation team.

DATA SCIENTIST

School of Computer Science, University of Sydney

Aug 2017 - Jun 2019

◊ Designed and developed a Researcher Collaboration Recommendation System using *Python* and *D3.js*, enabling data-driven connections and enhancing research networking through interactive visualizations.

◊ Invited to present at *The 16th Australasian Data Mining Conference*.

ANALYST

Market Infrastructure, ASIC

Jul 2016 - Oct 2019

◊ Proposed and implemented a *Wash Trade Detection analytics* using *KDB+/Q*, enhancing market surveillance and regulatory compliance.

◊ Received excellent feedback from the senior management team after delivering the *Wash Trade Detection analytics*.

MARKET TECHNOLOGY ANALYST

Market & Participant Supervision, ASIC

Jan 2013 - Jul 2016

◊ Led the development and implementation of a *Market Analysis and Intelligence Surveillance System*, improving market cleanliness.

◊ Successfully launched the *Market Analysis and Intelligence Surveillance System*, earning the *Australia Day Achievement Award* in recognition of the accomplishment.

ACHIEVEMENTS

- **Australia Day Achievement Award**, ASIC, Launched Market Analysis and Intelligence Surveillance System
- **ARI Award**, Aristocrat Technologies Australia
- **Competent Communicator**, Toastmasters International

INTRANET PROGRAMMER

Information and Communications Technology, Scots College

Oct 2011 - Dec 2011

◊ Oversaw the maintenance and management of *IBM DB2*, ensuring database reliability, performance, and security.

DOMAIN ANALYST

Wagering Technology, Tabcorp Holdings Limited

Mar 2011 - May 2011

◊ Led and managed requirements gathering for the *Customer Loyalty Project*, ensuring alignment with business objectives and stakeholder needs.

SOFTWARE ENGINEER

Studio Development, Aristocrat Technologies Australia

Jul 2008 - Mar 2011

◊ Designed and developed gaming applications using C and C++, creating engaging user experiences.

◊ Successfully developed the game *Peeking Duck*, which received highly positive feedback from the gaming floors.

GRADUATE SOFTWARE ENGINEER

Platform Development, Aristocrat Technologies Australia

Jul 2007 - Jul 2008

◊ Designed and developed networking protocols for casino management systems using C and C++, ensuring secure and efficient communication across the platforms.

◊ Successfully proposed a third-party licensing initiative to the executive team, leading to the development of *JAW* gaming the following year.

GRADUATE TEST ENGINEER

Software Integrity Testing, Aristocrat Technologies Australia

Jan 2007 - Jul 2007

◊ Developed comprehensive test plans and performed unit and integration testing to ensure high-quality, reliable software delivery.

EDUCATION

MASTER OF RESEARCH, Macquarie University

Jul 2021 - Oct 2023

◊ Identifying Causal Directions from Text: Unsupervised Learning using Bayesian Framework

MASTER OF DATA SCIENCE, University of Sydney

Mar 2016 - Jul 2019

◊ Academic Capability Mapping

MASTER OF ECONOMICS, University of Sydney

Mar 2008 - Jul 2012

MASTER OF INFORMATION TECHNOLOGY, UNSW

Jul 2005 - Dec 2007

BACHELOR OF SCIENCE, UNSW

Jul 2001 - Mar 2005

PUBLICATIONS

Exploring Causal Directions through Word Occurrences: Semi-supervised Bayesian Classification Framework, **King Tao Jason Ng** and **Diego Mollá**. *The 21st Annual Workshop of the Australasian Language Technology Association, Melbourne, VIC, Australia, November 29 - December 1, 2023*

Hierarchical Word Mover Distance for Collaboration Recommender System, **Chao Sun**, **King Tao Jason Ng**, **Philip Henville** and **Roman Marchant**. *The 16th Australasian Data Mining Conference, AusDM 2018, Bathurst, NSW, Australia, November 28 - 30, 2018, Revised Selected Papers*